



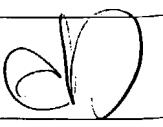
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/336,116	06/18/1999	CHUNG LAM	82225.P1423D	7276
7590	01/29/2004		EXAMINER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 12400 WILSHIRE BOULEVARD 7TH FLOOR LOS ANGELES, CA 900251026			AHMED, SHAMIM	
			ART UNIT	PAPER NUMBER
			1765	

DATE MAILED: 01/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.		
	09/336,116	LAM, CHUNG	
	Examiner	Art Unit	1765
Shamim Ahmed			
-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --			
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.			
<ul style="list-style-type: none"> - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 			
Status			
1) <input checked="" type="checkbox"/> Responsive to communication(s) filed on <u>20 October 2003</u> .			
2a) <input checked="" type="checkbox"/> This action is FINAL . 2b) <input type="checkbox"/> This action is non-final.			
3) <input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4) <input checked="" type="checkbox"/> Claim(s) <u>9-16</u> is/are pending in the application.			
4a) Of the above claim(s) <u> </u> is/are withdrawn from consideration.			
5) <input type="checkbox"/> Claim(s) <u> </u> is/are allowed.			
6) <input checked="" type="checkbox"/> Claim(s) <u>9-16</u> is/are rejected.			
7) <input type="checkbox"/> Claim(s) <u> </u> is/are objected to.			
8) <input type="checkbox"/> Claim(s) <u> </u> are subject to restriction and/or election requirement.			
Application Papers			
9) <input type="checkbox"/> The specification is objected to by the Examiner.			
10) <input type="checkbox"/> The drawing(s) filed on <u> </u> is/are: a) <input type="checkbox"/> accepted or b) <input type="checkbox"/> objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) <input type="checkbox"/> The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority under 35 U.S.C. §§ 119 and 120			
12) <input type="checkbox"/> Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) <input type="checkbox"/> All b) <input type="checkbox"/> Some * c) <input type="checkbox"/> None of:			
1. <input type="checkbox"/> Certified copies of the priority documents have been received.			
2. <input type="checkbox"/> Certified copies of the priority documents have been received in Application No. <u> </u> .			
3. <input type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).			
* See the attached detailed Office action for a list of the certified copies not received.			
13) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.			
a) <input type="checkbox"/> The translation of the foreign language provisional application has been received.			
14) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.			
Attachment(s)			
1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)		4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). <u> </u>	
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)		5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)	
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u> </u>		6) <input type="checkbox"/> Other: <u> </u>	

DETAILED ACTION

Response to Arguments

1. Applicant argues that Wensink does not teach that the integrated circuit or device under test (DUT) is not bonded to connector board (26) via a surface mount attachment.

This is not persuasive because Wensink clearly teaches that the DUT (22) is bonded to the connector board through J-type leads (28) (see the rejection).

Applicant also argue that Wensink's surface mount requires the use of clamps (24) in order to connect DUT (22) to the connector board (26), wherein the J-type leads (28) are only used to pass electrical connection to the connector board.

In response to the argument, examiner states that the DUT is attached or bonded to the connector board (26) through the direct attachment of J-type leads (28), wherein the leads have to be soldered to the connector board (26) in accordance with a traditional surface mount attachment as supported by Farnworth (Re.34, 794) in col.1, lines 40-45) and Gore et al (5,528,461) in col.3, lines 34-40).

Therefore, in order to connect the DUT with the connector board, it is not required to use the clamps (24) because the J-type leads are directly bonded to the connector board in order to pass electrical connection.

Claims 9-16 are rejected as follows.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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3. Claims 9-16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Both the claims 9 and 13 are amended to incorporate the new limitation that "an IC package **bonded** onto a printed circuit board", wherein the specification does not support the new limitation because the specification only describe that an IC package is mounted to a printed circuit board (page 7, lines 5-6).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 9,13 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Wensink (5,443,675).

Wensink discloses a decapsulating process for an integrated circuits (IC) to open plastic mold package, wherein the integrated circuit (22) is mounted onto a surface of a connector board (26), which establishes the electrical connection with the integrated circuit to be tested, wherein the attachment of the IC package to the connector board is a surface-mount attachment (col.4, lines 7-25 and figure 1).

Wensink inherently teaches that the connector board is nothing but a printed circuit board.

Wensink also discloses an etch head or injection head is provided for supplying decapsulating fluid that sprayed onto the integrated circuit (col.1, lines 8-25, col.4, lines 7-29).

Wensink further discloses that the etch head is removably attached with the integrated circuit or the fixture having IC attached with the connector or circuit board (col.4, lines 56-64).

So, Wensink inherently teach that the IC is clamped with the etch head or the injection head.

As to claim 13, Wensink teaches that the etch head or the injection head having a nozzle disposed above the integrated circuit package that is in fluid communication with an inlet port and a return or suction port (see figure 1).

As to claim 16, Wensink introducing a top plate (18) with a cavity (20), wherein the plate is etch resistant.

So, the plate around the cavity works as a sealant for preventing the etchant or the decapsulating fluid to enter the circuit board (figure 1).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 11 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wensink (5,443,675) as applied to claims 9,13 and 16 above, and further in view of Winsemius et al (5,792,305).

Wensink discussed above in the paragraph 5, but fails to discuss a step of controlling the flow of the decapsulating fluid through a pair of tubes as the context of claims 11 and 14.

However, Winsemius et al disclose a decapsulating system having a pair of tubes including corresponding valves to control the flow of the decapsulating fluid, wherein the valve is intermittently activated to pulse the fluid flow to reduce the consumption of the decapsulating fluid (col.6, lines 31-40, col.7, lines 25-29 and also figure 1).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of claimed invention to combine Winsemius et al's teaching into Wensink's process to introduce a pair of tubes with corresponding valves to control the flow of the decapsulating fluid as taught by Winsemius et al.

By doing so, one could reduce the consumption of the encapsulating fluid as taught by Winsemius et al.

8. Claims 10,12 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wensink (5,443,675) as applied to claims 9,13 and 16 above, and further in view of Buck et al (5,489,854).

Wensink discussed above in the paragraph 5 but fails to teach the introduction of a stub that is plugged into a tray to support the circuit board.

However, Buck et al disclose spring biased contacts that can be used to align and hold a printed circuit board, wherein an IC chip or a device under test (DUT) is mounted on the board (col.1, lines 9-12, col.2, lines 6-17, figure 5).

Therefore, it would have been obvious to one skill in the art at the time of claimed invention to employ Buck et al's teaching into Wensink's method for supporting the circuit board by fixedly positioning the circuit board as taught by Buck et al.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shamim Ahmed whose telephone number is (571) 272-1457. The examiner can normally be reached on M-Thu (7:00-5:30) Every Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine G Norton can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Shamim Ahmed
Examiner
Art Unit 1765

SA
January 12, 2004

SUPERVISOR
NADINE G. NORTON
PRIMARY EXAMINER
